

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	114	(548/418).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/09 11:04
L2	822	(514/410).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/09 11:04
L3	335	(546/48).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/09 11:05
L4	226	(514/280).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2006/02/09 11:05

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TERMINAL (ENTER 1, 2, 3, OR ?):2

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NEWS 3 DEC 05 CASREACT(R) - Over 10 million reactions available  
NEWS 4 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE  
NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER  
NEWS 6 DEC 14 CA/Caplus to be enhanced with updated IPC codes  
NEWS 7 DEC 21 IPC search and display fields enhanced in CA/Caplus with the  
IPC reform  
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/  
USPAT2  
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB  
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to  
INPADOC  
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT  
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV  
NEWS 13 JAN 30 Saved answer limit increased  
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency  
added to TULSA

NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT  
<http://download.cas.org/express/v8.0-Discover/>

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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 09:53:53 ON 09 FEB 2006

=> fil caplus  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
0.21	0.21

FILE 'CAPLUS' ENTERED AT 09:54:04 ON 09 FEB 2006  
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FILE COVERS 1907 - 9 Feb 2006 VOL 144 ISS 7  
FILE LAST UPDATED: 8 Feb 2006 (20060208/ED)

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=> s us20040077672/pn  
L1 1 US20040077672/PN  
(US2004077672/PN)

=> d

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2006 ACS on STN  
 AN 2004:326182 CAPLUS  
 DN 140:339315  
 TI New anticancer bis-fused [3,4-a:3,4-c]carbazole derivatives, process for  
 their preparation, and pharmaceutical compositions containing them  
 IN Prudhomme, Michelle; Rugon, Bernadette; Anizon, Fabrice; Hickman, John;  
 Pierre, Alain; Golsteyn, Roy; Renard, Pierre; Pfeiffer, Bruno  
 PA Les Laboratoires Servier, Fr.  
 SO Eur. Pat. Appl., 42 pp.  
 CODEN: EPXOXDW  
 DT Patent  
 LA French  
 FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1411057	A1	20040421	EP 2003-292545	20031014
EP 1411057	B1	20050427		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2845996	A1	20040423	FR 2002-12847	20021016
US 2004077672	A1	20040422	US 2003-672418	20030926
<--				
AT 294181	E	20050515	AT 2003-292545	20031014
ES 2240927	T3	20051016	ES 2003-3292545	20031014
CA 2443585	AA	20040416	CA 2003-2443585	20031015
BR 2003004575	A	20040720	BR 2003-4575	20031015
NZ 528902	A	20040924	NZ 2003-528902	20031015
ZA 2003008053	A	20040708	ZA 2003-8053	20031016
JP 2004277404	A2	20041007	JP 2003-355815	20031016
PRAI FR 2002-12847	A	20021016		

OS MARPAT 140:339315  
 RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD  
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> select 11
ENTER ANSWER NUMBER OR RANGE (1-):1
ENTER DISPLAY CODE (TI) OR ?:rn
E1 THROUGH E50 ASSIGNED
```

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=> fil reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          3.63          3.84
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FILE 'REGISTRY' ENTERED AT 09:54:30 ON 09 FEB 2006  
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STRUCTURE FILE UPDATES: 7 FEB 2006 HIGHEST RN 873775-18-9  
DICTIONARY FILE UPDATES: 7 FEB 2006 HIGHEST RN 873775-18-9

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TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

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```
*****
*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*
*****
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Structure search iteration limits have been increased. See HELP SLIMITS  
for details.

REGISTRY includes numerically searchable data for experimental and  
predicted properties as well as tags indicating availability of  
experimental property data in the original document. For information  
on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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1 100-36-7/BI
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1 10075-50-0/BI
  (10075-50-0/RN)
1 108-31-6/BI
  (108-31-6/RN)
1 119139-14-9/BI
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1 120-72-9/BI
  (120-72-9/RN)
1 1215-59-4/BI
  (1215-59-4/RN)
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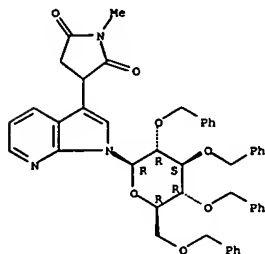
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 OR 120-72-9/BI OR 1215-59-4/BI OR 17422-32-1/BI OR 190326-00-2/B  
 I OR 198474-05-4/BI OR 221905-17-5/BI OR 3005-27-4/BI OR 374818-  
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 OR 38768-81-9/BI OR 399-52-0/BI OR 447408-23-3/BI OR 541-59-3/BI  
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 OR 681163-20-2/BI OR 681163-22-4/BI OR 930-88-1/BI)

=> d 12 1-50

L2 ANSWER 1 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681163-22-4 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 2,5-Pyrrolidinedione, 1-methyl-3-[1-[2,3,4,6-tetrakis-O-(phenylmethyl)-  
 β-D-glucopyranosyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]- (9CI) (CA INDEX  
 NAME)  
 OTHER NAMES:  
 CN 1-Methyl-3-[1-(2,3,4,6-tetra-O-benzyl-β-D-glucopyranosyl)-1H-  
 pyrrolo[2,3-b]pyridin-3-yl]-2,5-pyrrolidinedione  
 FS STEREOSEARCH  
 MF C46 H45 N3 O7  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

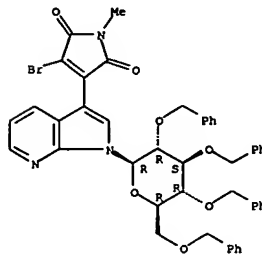


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2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681163-20-2 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Pyrrole-2,5-dione, 3-bromo-1-methyl-4-[1-[2,3,4,6-tetrakis-O-  
 (phenylmethyl)-β-D-glucopyranosyl]-1H-pyrrolo[2,3-b]pyridin-3-yl]-  
 (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-Bromo-1-methyl-4-[1-(2,3,4,6-tetra-O-benzyl-β-D-glucopyranosyl)-1H-  
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 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

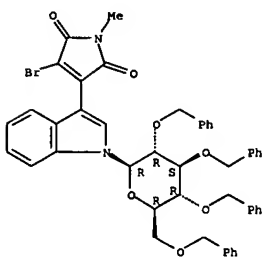


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L2 ANSWER 3 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681163-18-8 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Pyrrole-2,5-dione, 3-bromo-1-methyl-4-[1-[2,3,4,6-tetrakis-O-  
 (phenylmethyl)-β-D-glucopyranosyl]-1H-indol-3-yl]- (9CI) (CA INDEX  
 NAME)  
 OTHER NAMES:  
 CN 3-Bromo-1-methyl-4-[1-(2,3,4,6-tetra-O-benzyl-β-D-glucopyranosyl)-1H-  
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 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

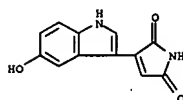
Absolute stereochemistry.



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L2 ANSWER 4 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681163-15-5 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Pyrrole-2,5-dione, 3-(5-hydroxy-1H-indol-3-yl)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
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 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

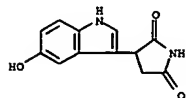


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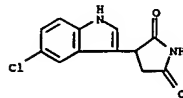
L2 ANSWER 5 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681163-13-3 REGISTRY  
 ED Entered STN: 11 May 2004  
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 OTHER NAMES:  
 CN 3-(5-Hydroxy-1H-indol-3-yl)-2,5-pyrrolidinedione  
 FS 3D CONCORD  
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 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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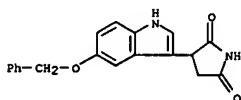
L2 ANSWER 6 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681163-08-6 REGISTRY  
 ED Entered STN: 11 May 2004  
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 CN 3-(5-Chloro-1H-indol-3-yl)-2,5-pyrrolidinedione  
 FS 3D CONCORD  
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 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



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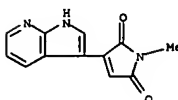
L2 ANSWER 7 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681163-03-1 REGISTRY  
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 OTHER NAMES:  
 CN 3-[5-(Benzyloxy)-1H-indol-3-yl]-2,5-pyrrolidinedione  
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 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



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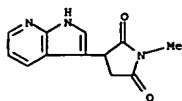
L2 ANSWER 8 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681163-01-9 REGISTRY  
 ED Entered STN: 11 May 2004  
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 OTHER NAMES:  
 CN 1-Methyl-3-(1H-pyrrolo[2,3-b]pyridin-3-yl)-1H-pyrrole-2,5-dione  
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 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



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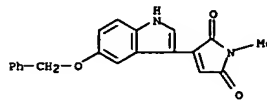
L2 ANSWER 9 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681162-99-2 REGISTRY  
 ED Entered STN: 11 May 2004  
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 (CA INDEX NAME)  
 OTHER NAMES:  
 CN 1-Methyl-3-[(1H-pyrrolo[2,3-b]pyridin-3-yl)-2,5-pyrrolidinedione  
 FS 3D CONCORD  
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 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



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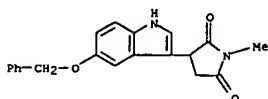
L2 ANSWER 10 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681162-95-8 REGISTRY  
 ED Entered STN: 11 May 2004  
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 (CA INDEX NAME)  
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 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



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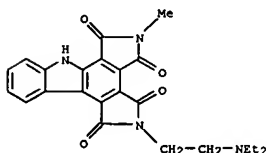
L2 ANSWER 11 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681162-93-6 REGISTRY  
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 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

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 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

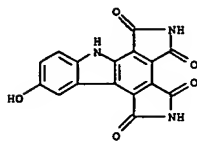
L2 ANSWER 12 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681162-91-4 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
 2-[2-(diethylamino)ethyl]-5-methyl- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2-[2-(Diethylamino)ethyl]-5-methyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-  
 1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C23 H22 N4 O4  
 CI CGM  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

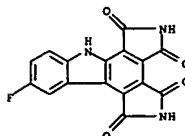
L2 ANSWER 13 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 691162-89-0 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
 10-hydroxy- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 10-Hydroxy-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C16 H7 N3 O5  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

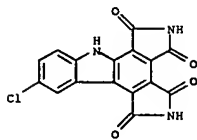
L2 ANSWER 14 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 691162-87-8 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
 10-fluoro- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 10-Fluoro-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C16 H6 F N3 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

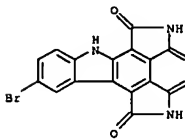
L2 ANSWER 15 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 691162-85-6 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
 10-chloro- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 10-Chloro-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C16 H6 Cl N3 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

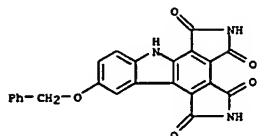
L2 ANSWER 16 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 691162-83-4 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 10-bromo- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 10-Bromo-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C16 H6 Br N3 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

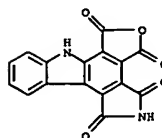
2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 17 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681162-81-2 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
 10-(phenylmethoxy)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 10-(Benzyloxy)-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-  
 tetrone  
 FS 3D CONCORD  
 MF C23 H13 N3 O5  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



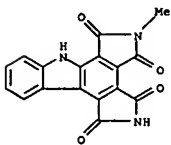
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 18 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681162-79-8 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN Puro[3,4-aldipyrrolo[3,4-c]carbazole-1,3,4,6(2H,7H)-tetrone (9CI) (CA  
 INDEX NAME)  
 FS 3D CONCORD  
 MF C16 H6 N2 O5  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



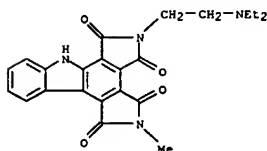
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 19 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681162-77-6 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 5-methyl-  
 (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 5-Methyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C17 H9 N3 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

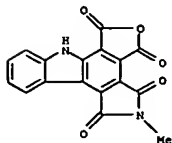
L2 ANSWER 20 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681162-75-4 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
 5-[2-(diethylamino)ethyl]-2-methyl-, hydrochloride (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 5-[2-(Diethylamino)ethyl]-2-methyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-  
 1,3,4,6(2H,5H,7H)-tetrone hydrochloride  
 MF C23 H22 N4 O4 . x Cl H  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL  
 CRN (791062-09-4)



● x HCl

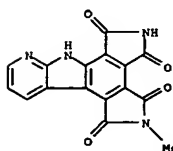
1 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 21 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681162-73-2 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN Furo[3,4-a]pyrrolo[3,4-c]carbazole-1,3,4,6(2H,7H)-tetrone, 2-methyl-  
 (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2-Methylfuro[3,4-a]pyrrolo[3,4-c]carbazole-1,3,4,6(2H,7H)-tetrone  
 FS 3D CONCORD  
 MF C17 H8 N2 O5  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



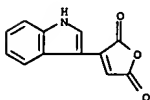
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 22 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 681162-71-0 REGISTRY  
 ED Entered STN: 11 May 2004  
 CN 1H-Pyrido[2,3-b]dipyrrolo[3,4-e:3',4'-g]indole-1,3,4,6(2H,5H,7H)-tetrone,  
 2-methyl- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2-Methyl-1H-pyrido[2,3-b]dipyrrolo[3,4-e:3,4-g]indole-1,3,4,6(2H,5H,7H)-  
 tetrone  
 FS 3D CONCORD  
 MF C16 H8 N4 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



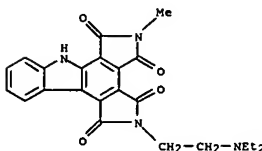
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 23 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 560545-20-0 REGISTRY  
 ED Entered STN: 18 Aug 2003  
 CN 2,5-Furandione, 3-(1H-indol-3-yl)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-(1H-Indol-3-yl)-2,5-furandione  
 FS 3D CONCORD  
 MF C12 H7 N O3  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

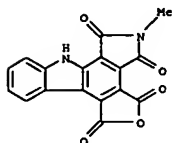
L2 ANSWER 24 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 560545-19-7 REGISTRY  
 ED Entered STN: 18 Aug 2003  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
 2-[2-(diethylamino)ethyl]-5-methyl-, monohydrochloride (9CI) (CA INDEX  
 NAME)  
 OTHER NAMES:  
 CN 2-[2-(Diethylamino)ethyl]-5-methyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-  
 1,3,4,6(2H,5H,7H)-tetrone hydrochloride  
 DR 681162-69-6  
 MF C23 H22 N4 O4 . C1 H  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL  
 CRN (681162-91-4)



● HCl

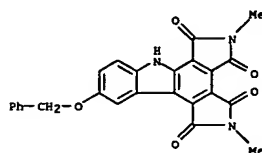
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 25 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 568545-18-6 REGISTRY  
 ED Entered STN: 18 Aug 2003  
 CN Puro[3,4-c]pyrrolo[3,4-a]carbazole-1,3,4,6(5H,7H)-tetrone, 5-methyl-  
 (9CI)  
 (CA INDEX NAME)  
 OTHER NAMES:  
 CN 5-Methylfuro[3,4-c]pyrrolo[3,4-a]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C17 H8 N2 O5  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



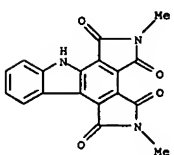
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 26 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 568545-17-5 REGISTRY  
 ED Entered STN: 18 Aug 2003  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
 2,5-dimethyl-10-(phenylmethoxy)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 10-(Benzyloxy)-2,5-dimethyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-  
 1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C25 H17 N3 O5  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



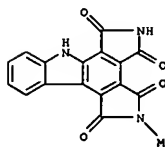
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 27 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 568545-16-4 REGISTRY  
 ED Entered STN: 18 Aug 2003  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
 2,5-dimethyl- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2,5-Dimethyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C18 H11 N3 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



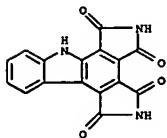
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 28 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 568545-15-3 REGISTRY  
 ED Entered STN: 18 Aug 2003  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 2-methyl-  
 (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 2-Methyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C17 H9 N3 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

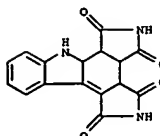
L2 ANSWER 29 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 568545-14-2 REGISTRY  
 ED Entered STN: 18 Aug 2003  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 1H-Dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
 FS 3D CONCORD  
 MF C16 H7 N3 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
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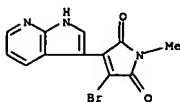
L2 ANSWER 30 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 568545-12-0 REGISTRY  
 ED Entered STN: 18 Aug 2003  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone, 3b,6a,6b,7-tetrahydro- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3b,6a,6b,7-Tetrahydro-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone  
 FS 3D CONCORD  
 MF C16 H11 N3 O4  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

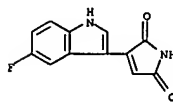
L2 ANSWER 31 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 447408-23-3 REGISTRY  
 ED Entered STN: 06 Sep 2002  
 CN 1H-Pyrrole-2,5-dione, 3-bromo-1-methyl-4-(1H-pyrrolo[2,3-b]pyridin-3-yl)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-Bromo-1-methyl-4-(1H-pyrrolo[2,3-b]pyridin-3-yl)-1H-pyrrole-2,5-dione  
 FS 3D CONCORD  
 MF C12 H8 Br N3 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

8 REFERENCES IN FILE CA (1907 TO DATE)  
 8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

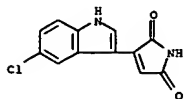
L2 ANSWER 32 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 374818-58-3 REGISTRY  
 ED Entered STN: 12 Dec 2001  
 CN 1H-Pyrrole-2,5-dione, 3-(5-fluoro-1H-indol-3-yl)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-(1H-5-Fluoroindol-3-yl)-1H-pyrrole-2,5-dione  
 CN 3-(5-Fluoro-1H-indol-3-yl)-1H-pyrrole-2,5-dione  
 FS 3D CONCORD  
 MF C12 H7 F N2 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

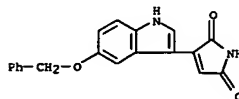
L2 ANSWER 33 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 374818-55-0 REGISTRY  
 ED Entered STN: 12 Dec 2001  
 CN 1H-Pyrrole-2,5-dione, 3-(5-chloro-1H-indol-3-yl)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-(1H-5-Chloroindol-3-yl)-1H-pyrrole-2,5-dione  
 CN 3-(5-Chloro-1H-indol-3-yl)-1H-pyrrole-2,5-dione  
 FS 3D CONCORD  
 MF C12 H7 Cl N2 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

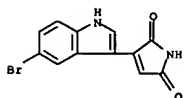
L2 ANSWER 34 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 374818-21-0 REGISTRY  
 ED Entered STN: 12 Dec 2001  
 CN 1H-Pyrrole-2,5-dione, 3-[5-(phenylmethoxy)-1H-indol-3-yl]- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-(1H-5-Benzoyloxyindol-3-yl)-1H-pyrrole-2,5-dione  
 CN 3-(5-(Benzoyloxy)-1H-indol-3-yl)-1H-pyrrole-2,5-dione  
 FS 3D CONCORD  
 MF C19 H14 N2 O3  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

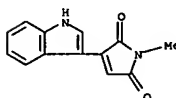
L2 ANSWER 35 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 374818-13-0 REGISTRY  
 ED Entered STN: 12 Dec 2001  
 CN 1H-Pyrrole-2,5-dione, 3-(5-bromo-1H-indol-3-yl)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-(1H-5-Bromoindol-3-yl)-1H-pyrrole-2,5-dione  
 CN 3-(5-Bromo-1H-indol-3-yl)-1H-pyrrole-2,5-dione  
 FS 3D CONCORD  
 MF C12 H7 Br N2 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 36 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 221905-17-5 REGISTRY  
 ED Entered STN: 29 Apr 1999  
 CN 1H-Pyrrole-2,5-dione, 3-(1H-indol-3-yl)-1-methyl- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-(1H-Indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione  
 FS 3D CONCORD  
 MF C13 H10 N2 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

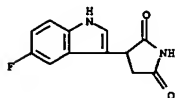


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

6 REFERENCES IN FILE CA (1907 TO DATE)  
 6 REFERENCES IN FILE CAPLUS (1907 TO DATE)



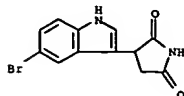
L2 ANSWER 37 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 198474-05-4 REGISTRY  
 ED Entered STN: 12 Dec 1997  
 CN 2,5-Pyrrolidinedione, 3-(5-fluoro-1H-indol-3-yl)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-(5-Fluoro-1H-indol-3-yl)-2,5-pyrrolidinedione  
 FS 3D CONCORD  
 MF C12 H9 F N2 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

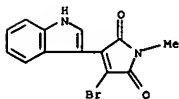
L2 ANSWER 38 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 190326-00-2 REGISTRY  
 ED Entered STN: 23 Jun 1997  
 CN 2,5-Pyrrolidinedione, 3-(5-bromo-1H-indol-3-yl)- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-(5-Bromo-1H-indol-3-yl)-2,5-pyrrolidinedione  
 FS 3D CONCORD  
 MF C12 H9 Br N2 O2  
 SR CA  
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

3 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 39 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 119139-14-9 REGISTRY  
 ED Entered STN: 17 Feb 1989  
 CN 1H-Pyrrole-2,5-dione, 3-bromo-4-(1H-indol-3-yl)-1-methyl- (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN 3-Bromo-4-(1H-indol-3-yl)-1-methyl-1H-pyrrole-2,5-dione  
 FS 3D CONCORD  
 MF C13 H9 Br N2 O2  
 SR CA  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CASREACT, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

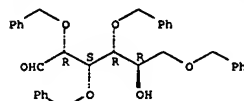


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

19 REFERENCES IN FILE CA (1907 TO DATE)  
 19 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 40 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 38768-81-9 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN D-Glucose, 2,3,4,6-tetrakis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN D-Glucose, 2,3,4,6-tetra-O-benzyl- (6CI, 7CI)  
 OTHER NAMES:  
 CN 2,3,4,6-Tetra-O-benzyl-D-glucofuranose  
 CN 2,3,4,6-Tetra-O-benzyl-D-glucose  
 CN 2,3,4,6-Tetra-O-benzylglucose  
 FS STEREOSEARCH  
 DR 624715-49-7, 124813-81-6, 98815-81-7  
 MF C34 H36 O6  
 CI COM  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)

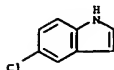
Absolute stereochemistry. Rotation (+).



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

415 REFERENCES IN FILE CA (1907 TO DATE)  
 1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 416 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 4 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

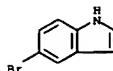
L2 ANSWER 41 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 17422-32-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1H-Indole, 5-chloro- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Indole, 5-chloro- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN 5-Chloro-1H-indole  
 CN 5-Chloroindole  
 CN NSC 89562  
 FS 3D CONCORD  
 MF C8 H6 Cl N  
 CI COM  
 LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,  
 CHEMINFORMRX, CHEMLIST, CSCHEM, GELIN\*, IFICDB, IFIPAT, IFIUDS,  
 MSDS-OHS, SPECINFO, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

297 REFERENCES IN FILE CA (1907 TO DATE)  
 298 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

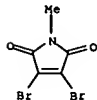
L2 ANSWER 42 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 10075-50-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1H-Indole, 5-bromo- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Indole, 5-bromo- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN 5-Bromo-1H-indole  
 CN 5-Bromoindole  
 CN NSC 75581  
 FS 3D CONCORD  
 MF C8 H6 Br N  
 CI COM  
 LC STN Files: ACQUIRE, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT,  
 CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, GELIN\*, IFICDB, IFIPAT,  
 IFIUDS, NAPRALERT, PS, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2,  
 USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

496 REFERENCES IN FILE CA (1907 TO DATE)  
 497 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 8 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

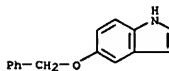
L2 ANSWER 43 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 3005-27-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1H-Pyrrole-2,5-dione, 3,4-dibromo-1-methyl- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Maleimide, 2,3-dibromo-N-methyl- (7CI, 8CI)  
 OTHER NAMES:  
 CN 1-Methyl-3,4-dibromomaleimide  
 CN 2,3-Dibromo-N-methylmaleimide  
 CN 3,4-Dibromo-N-methylmaleimide  
 CN 3,4-Dibromo-N-methylpyrrole-2,5-dione  
 CN Dibromo-N-methylmaleimide  
 CN N-Methyl-2,3-dibromomaleimide  
 CN N-Methyldibromomaleimide  
 CN NSC 120444  
 FS 3D CONCORD  
 MF C5 H3 Br2 N O2  
 LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,  
 CHEMINFORMRX, RTECS\*, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

64 REFERENCES IN FILE CA (1907 TO DATE)  
 64 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

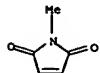
L2 ANSWER 44 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 1215-59-4 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1H-Indole, 5-(phenylmethoxy)- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Indole, 5-(benzyloxy)- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN 5-(Benzyloxy)-1H-indole  
 CN 5-(Phenylmethoxy)-1H-indole  
 CN 5-(Phenylmethoxy)indole  
 CN 5-Benzyloxyindole  
 CN Benzyl 1H-indol-5-yl ether  
 CN NSC 62895  
 FS 3D CONCORD  
 MF C15 H13 N O  
 CI COM  
 LC STN Files: BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS,  
 CHEMINFORMRX, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDS, PS, RTECS\*,  
 SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

237 REFERENCES IN FILE CA (1907 TO DATE)  
 3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 238 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 11 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 45 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 930-88-1 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1H-Pyrrole-2,5-dione, 1-methyl- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Maleimide, N-methyl- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN 1-Methyl-1H-pyrrole-2,5-dione  
 CN N-Methylmaleimide  
 CN N-Methylmaleinimide  
 CN NSC 57594  
 FS 3D CONCORD  
 MF C5 H5 N O2  
 CI COM  
 LC STN Files: AGRICOLA, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, GHELIN\*, IFICDB, IFIPAT, IFIUDB, NIOSHTIC, PIRA, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1013 REFERENCES IN FILE CA (1907 TO DATE)  
 20 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1013 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 16 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

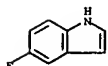
L2 ANSWER 46 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 541-59-3 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1H-Pyrrole-2,5-dione (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Maleimide (6CI, 8CI)  
 OTHER NAMES:  
 CN 3-Pyrroline-2,5-dione  
 CN Maleic imide  
 CN NSC 13684  
 CN Pyrrole-2,5-dione  
 FS 3D CONCORD  
 MF C4 H3 N O2  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNS, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, DETHERM\*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GHELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS\*, SCISEARCH, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*, EINECS\*, TSCA\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

2224 REFERENCES IN FILE CA (1907 TO DATE)  
 842 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 2231 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 33 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 47 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 399-52-0 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1H-Indole, 5-fluoro- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Indole, 5-fluoro- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN 5-Fluoro-1H-indole  
 CN 5-Fluoroindole  
 CN NSC 88613  
 FS 3D CONCORD  
 MF C8 H6 F N  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CSCHEM, EMBASE, IFICDB, IFIPAT, IFIUDB, MEDLINE, MSDS-OHS, SPECINFO, SYNTHLINE, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

257 REFERENCES IN FILE CA (1907 TO DATE)  
 257 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 48 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 120-72-9 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1H-Indole (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Indole (8CI)  
 OTHER NAMES:  
 CN 1-Azaindene  
 CN 1-Benzazole  
 CN 2,3-Benzopyrrole  
 CN Benzo[b]pyrrole  
 CN Ketole  
 CN NSC 1964  
 FS 3D CONCORD  
 MF C8 H7 N  
 CI COM, RPS  
 LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO, CA, CAOLD, CAPLUS, CASREACT, CBNS, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DIPPR\*, DRUGU, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPAT, ENCOMPAT2, GHELIN\*, HSDB\*, IFICDB, IFIPAT, IFIUDB, IPA, MEDLINE, MRCK\*, MSDS-OHS, NAPRALERT, NIOSHTIC, PDLCOM\*, PIRA, PROMT, PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, ULIDAT, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*, EINECS\*, TSCA\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

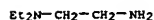
12572 REFERENCES IN FILE CA (1907 TO DATE)  
 2043 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 12590 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 49 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 108-31-6 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 2,5-Furandione (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Maleic anhydride (8CI)  
 OTHER NAMES:  
 CN BM 10  
 CN cis-Butenedioic anhydride  
 CN Crystal Man  
 CN Crystal Man AB  
 CN Dihydro-2,5-dioxofuran  
 CN HG 3-993-76  
 CN Maleic acid anhydride  
 CN Nourymix MA 901  
 CN NSC 137651  
 CN NSC 137652  
 CN NSC 137653  
 CN NSC 9568  
 CN Toxicic anhydride  
 FS 3D CONCORD  
 DR 184288-31-1  
 MF C4 H2 O3  
 CI COM  
 LC STN Files: AGRICOLA, ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, BIOTECHNO,  
 CA, CAOLD, CAPLUS, CASREACT, CBNS, CHEMCATS, CHEMINFORMRX, CHEMLIST,  
 CHEMSAFE, CIN, CSCHEM, CSNB, DDFU, DETHERM\*, DIPPR\*, DRUGU, ENGASE,  
 ENCOMPLITZ, ENCOMPLITZ, ENCOMPPAT, ENCOMPPAT2, GHELIN\*, HSDB\*, IFICDB,  
 IFIPAT, IFIUDB, IPA, MRCK\*, MSDS-OHS, NIOSHTIC, FOLCOM\*, PIRA, PROMT,  
 PS, RTECS\*, SPECINFO, SYNTHLINE, TOXCENTER, TULSA, USPAT2, USPATFULL,  
 VTB  
 (\*File contains numerically searchable property data)  
 Other Sources: DSL\*\*, EINECS\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 33710 REFERENCES IN FILE CA (1907 TO DATE)  
 15865 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 33756 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 50 OF 50 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 100-36-7 REGISTRY  
 ED Entered STN: 16 Nov 1984  
 CN 1,2-Ethanediimine, N,N-diethyl- (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Ethylenediamine, N,N-diethyl- (6CI, 7CI, 8CI)  
 OTHER NAMES:  
 CN N-(Diethylamino)ethylamine  
 CN 1-Amino-2-(diethylamino)ethane  
 CN 1-Amino-2-(N,N-diethylamino)ethane  
 CN 2-(Diethylamino)ethanamine  
 CN 2-(Diethylamino)ethylamine  
 CN N,N-Diethyl-1,2-diaminoethane  
 CN N,N-Diethyl-1,2-ethanediamine  
 CN N,N-Diethyl-1,2-ethylenediamine  
 CN N,N-Diethylethylenediamine  
 CN N-(2-Aminoethyl)-N,N-diethylamine  
 CN N-(2-Diethylaminoethyl)amine  
 CN NSC 19675  
 FS 3D CONCORD  
 MF C6 H16 N2  
 CI COM  
 LC STN Files: ANABSTR, AQUIRE, BEILSTEIN\*, BIOSIS, CA, CAOLD, CAPLUS,  
 CASREACT, CHEMCATS, CHEMINFORMRX, CHEMLIST, CHEMSAFE, CIN, CSCHEM,  
 GHELIN\*, IFICDB, IFIPAT, IFIUDB, IPA, PROMT, PS, RTECS\*, SPECINFO,  
 SYNTHLINE, TOXCENTER, USPAT2, USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*, NDSL\*\*, TSCA\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*  
 1850 REFERENCES IN FILE CA (1907 TO DATE)  
 146 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
 1851 REFERENCES IN FILE CAPLUS (1907 TO DATE)  
 40 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

95.88

99.72

STN INTERNATIONAL LOGOFF AT 09:55:24 ON 09 FEB 2006

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:SSSPTA1600RXA

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 DEC 05 CASREACT(R) - Over 10 million reactions available  
NEWS 4 DEC 14 2006 MeSH terms loaded in MEDLINE/LMEDLINE  
NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER  
NEWS 6 DEC 14 CA/Caplus to be enhanced with updated IPC codes  
NEWS 7 DEC 21 IPC search and display fields enhanced in CA/Caplus with the  
IPC reform  
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/  
USPAT2  
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB  
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to  
INPADOC  
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT  
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV  
NEWS 13 JAN 30 Saved answer limit increased  
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency  
added to TULSA

NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.  
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT  
<http://download.cas.org/express/v8.0-Discover/>

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

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research. Use for software development or design or implementation of commercial gateways or other similar uses is prohibited and may result in loss of user privileges and other penalties.

\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 10:21:53 ON 09 FEB 2006

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 10:22:00 ON 09 FEB 2006

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 7 FEB 2006 HIGHEST RN 873775-18-9

DICTIONARY FILE UPDATES: 7 FEB 2006 HIGHEST RN 873775-18-9

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

\*\*\*\*\*  
\*  
\* The CA roles and document type information have been removed from \*  
\* the IDE default display format and the ED field has been added, \*  
\* effective March 20, 2005. A new display format, IDERL, is now \*  
\* available and contains the CA role and document type information. \*  
\*  
\*\*\*\*\*

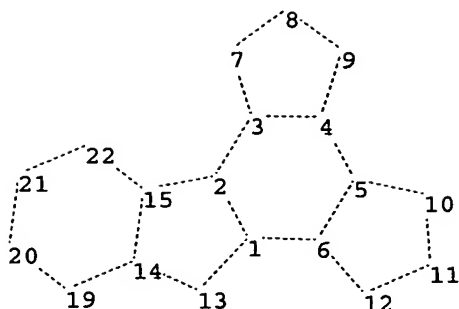
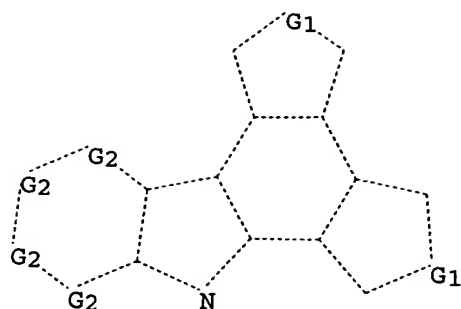
Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

=>

Uploading C:\Program Files\Stnexp\Queries\QUERIES\10672418.str



```

ring nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  19  20  21  22
ring bonds :
1-2  1-6  1-13  2-3  2-15  3-4  3-7  4-5  4-9  5-6  5-10  6-12  7-8  8-9  10-11
11-12  13-14  14-15  14-19  15-22  19-20  20-21  21-22
exact/norm bonds :
1-2  1-6  1-13  2-3  2-15  3-4  3-7  4-5  4-9  5-6  5-10  6-12  7-8  8-9  10-11
11-12  13-14  14-15  14-19  15-22  19-20  20-21  21-22
isolated ring systems :
containing 1 :
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G1:O,N

G2:C,N

Match level :

```

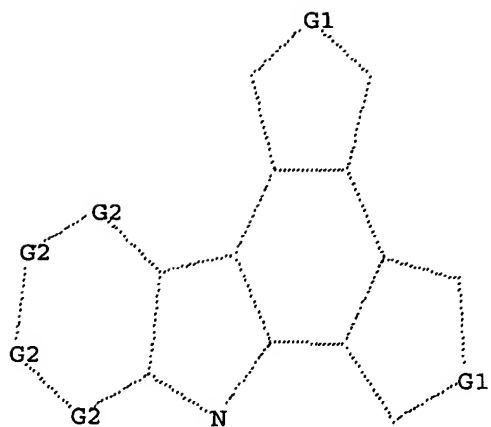
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11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 19:Atom 20:CLASS 21:CLASS 22:CLASS
```

L1        STRUCTURE UPLOADED

=> d

L1 HAS NO ANSWERS

L1                STR



G1 O,N

G2 C,N

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 10:22:26 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 1413 TO ITERATE

100.0% PROCESSED 1413 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 26005 TO 30515

PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s l1 full

FULL SEARCH INITIATED 10:22:29 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 26589 TO ITERATE

100.0% PROCESSED 26589 ITERATIONS

46 ANSWERS

SEARCH TIME: 00.00.01

L3 46 SEA SSS FUL L1

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49689123 CAPLUS/LC

L4 41 L3 AND CAPLUS/LC

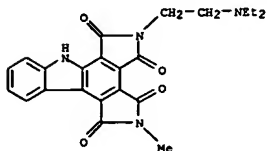
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L5 5 L3 NOT L4

=> d l5 1-5

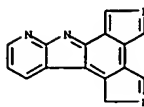


L5 ANSWER 1 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 791062-09-4 REGISTRY  
 ED Entered STN: 01 Dec 2004  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
 5-[2-(diethylamino)ethyl]-2-methyl- (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C23 H22 N4 O4  
 CI COM  
 SR CA



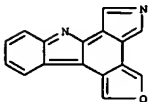
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L5 ANSWER 2 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 682352-38-1 REGISTRY  
 ED Entered STN: 17 May 2004  
 CN 1H-Pyrido[2,3-b]dipyrrolo[3,4-e:3',4'-g]indole (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C15 H8 N4  
 CI RPS  
 SR CA Index Guide or Ring Systems Handbook



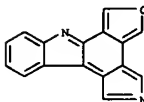
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L5 ANSWER 3 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 569361-56-4 REGISTRY  
 ED Entered STN: 19 Aug 2003  
 CN Furo[3,4-c]pyrrolo[3,4-a]carbazole (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C16 H8 N2 O  
 CI RPS  
 SR CA Index Guide or Ring Systems Handbook



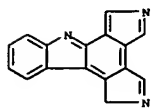
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L5 ANSWER 4 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN  
 RN 304856-10-8 REGISTRY  
 ED Entered STN: 29 Nov 2000  
 CN Furo[3,4-a]pyrrolo[3,4-c]carbazole (9CI) (CA INDEX NAME)  
 FS 3D CONCORD  
 MF C16 H8 N2 O  
 CI RPS  
 SR CA Index Guide or Ring Systems Handbook



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L5 ANSWER 5 OF 5 REGISTRY COPYRIGHT 2006 ACS on STN  
RN 304678-15-7 REGISTRY  
ED Entered STN: 28 Nov 2000  
CN 1H-Dipyrrolo[3,4-a:3',4''-c]carbazole (9CI) (CA INDEX NAME)  
FS 3D CONCORD  
MF C16 H9 N3  
CI RPS  
SR CA Index Guide or Ring Systems Handbook



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

=> fil caplus  
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
182.96	183.17

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 10:25:08 ON 09 FEB 2006  
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FILE COVERS 1907 - 9 Feb 2006 VOL 144 ISS 7  
FILE LAST UPDATED: 8 Feb 2006 (20060208/ED)

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=> d his

(FILE 'HOME' ENTERED AT 10:21:53 ON 09 FEB 2006)

FILE 'REGISTRY' ENTERED AT 10:22:00 ON 09 FEB 2006

L1	STRUCTURE UPLOADED
L2	2 S L1
L3	46 S L1 FULL
L4	41 S L3 AND CAPLUS/LC
L5	5 S L3 NOT L4

FILE 'CAPLUS' ENTERED AT 10:25:08 ON 09 FEB 2006

=> s l4

L6	4 L4
----	------

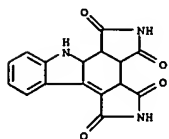
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L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2005:411294 CAPLUS  
 DOCUMENT NUMBER: 143:97555  
 TITLE: Synthesis of granulatimide bis-imide analogues  
 AUTHOR(S): Henon, Helene; Messaoudi, Samir; Hugon, Bernadette;  
 Anizon, Fabrice; Pfeiffer, Bruno; Prudhomme, Michelle  
 CORPORATE SOURCE: Laboratoire SEESIB, UMR 6504 du CNRS, Universite  
 Blaise Pascal, Aubiere, 63177, Fr.  
 SOURCE: Tetrahedron (2005), 61(23), 5599-5614  
 CODEN: TETRA; ISSN: 0040-4020  
 PUBLISHER: Elsevier B.V.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB The synthesis of dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6-tetraones, structurally related to granulatimide is reported. These compds. can be considered as granulatimide analogs in which a maleimide heterocycle replaces the imidazole moiety. The synthesis of pyridino[2,3-b]dipyrrolo[3,4-e:3',4'-g]indole-1,3,4,6-tetraones is also reported. In these compds., a 7-azaindole unit replaces the indole moiety present in the granulatimide and isogranulatimide structures.

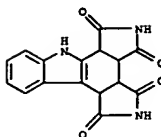
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 856414-11-4P 856414-12-5P 856414-13-6P  
 856414-19-2P 856414-25-0P 856414-26-1P  
 856414-27-7P 856414-28-3P 856414-29-4P  
 856414-30-7P 856414-32-9P  
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (synthesis of dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6-tetraones as granulatimide bis-imide analogs)

RN 568545-12-0 CAPLUS  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone, 3b,6a,6b,7-tetrahydro- (9CI) (CA INDEX NAME)

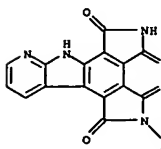


RN 568545-13-1 CAPLUS  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone, 3b,6a,7,11c-tetrahydro- (9CI) (CA INDEX NAME)

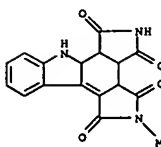
L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 681162-71-0 CAPLUS  
 CN 1H-Pyrido[2,3-b]dipyrrolo[3,4-e:3',4'-g]indole-1,3,4,6(2H,5H,7H)-tetrone, 2-methyl- (9CI) (CA INDEX NAME)

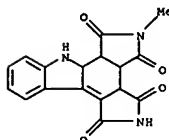


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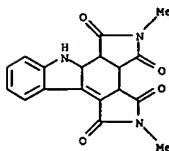


RN 856414-06-7 CAPLUS  
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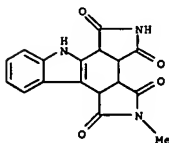
L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 856414-08-9 CAPLUS  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone, 3b,6a,6b,7-tetrahydro-2,5-dimethyl- (9CI) (CA INDEX NAME)

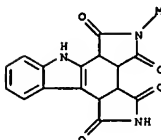


RN 856414-11-4 CAPLUS  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone, 3b,6a,7,11c-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)

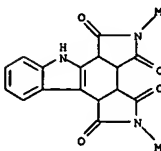


RN 856414-12-5 CAPLUS  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone, 3b,6a,7,11c-tetrahydro-5-methyl- (9CI) (CA INDEX NAME)

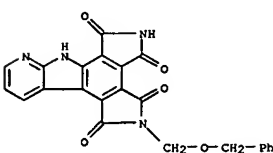
L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN (Continued)



RN 856414-13-6 CAPLUS  
 CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone, 3b,6a,7,11c-tetrahydro-2,5-dimethyl- (9CI) (CA INDEX NAME)

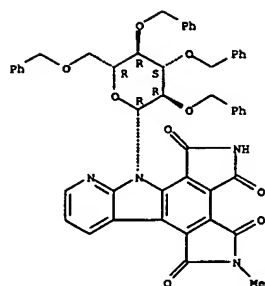


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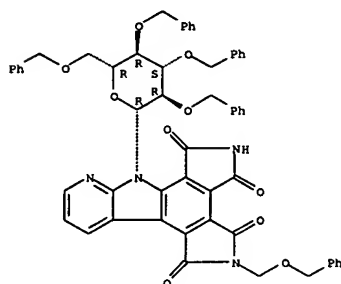
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Absolute stereochemistry.



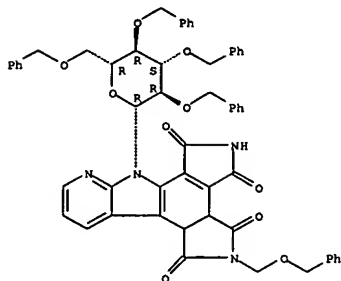
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Absolute stereochemistry.



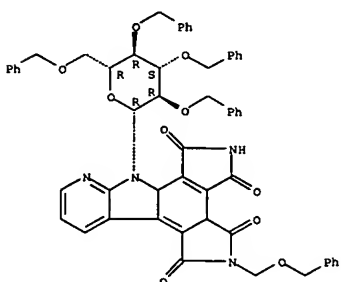
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Absolute stereochemistry.



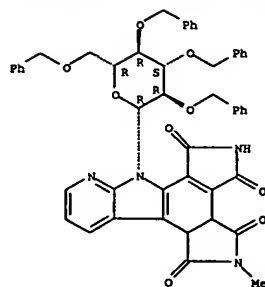
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Absolute stereochemistry.



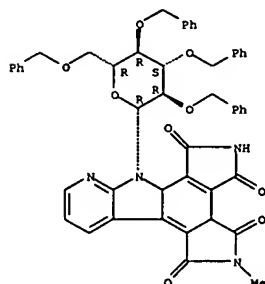
RN 856414-32-9 CAPLUS  
CN 1H-Pyrido[2,3-b]dipyrrolo[3,4-g:3',4'-e]indole-1,3,4,6(2H,5H,7H)-tetrone, 7-β-D-glucopyranosyl-2-(hydroxymethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



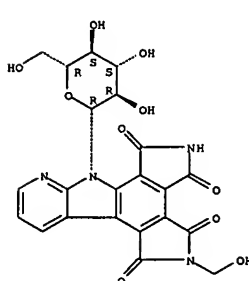
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Absolute stereochemistry.

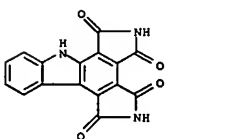


RN 856414-29-4 CAPLUS  
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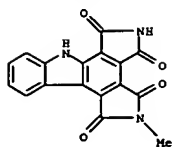
Absolute stereochemistry.



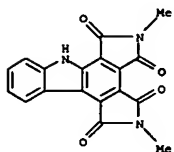
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856414-20-5P 856414-31-8P 856414-33-0P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(synthesis of dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6-tetraones as  
granulatimide bis-imide analogs)  
RN 568545-14-2 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone (9CI) (CA INDEX NAME)



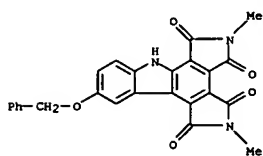
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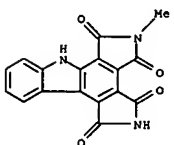
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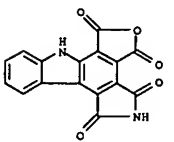
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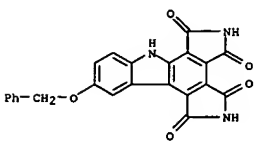
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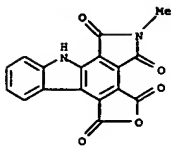
RN 681162-79-8 CAPLUS  
CN Furo[3,4-a]pyrrolo[3,4-c]carbazole-1,3,4,6(2H,7H)-tetrone (9CI) (CA INDEX NAME)



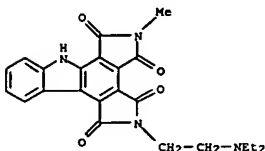
RN 681162-81-2 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 10-(phenylmethoxy)- (9CI) (CA INDEX NAME)



RN 681162-83-4 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 10-bromo- (9CI) (CA INDEX NAME)

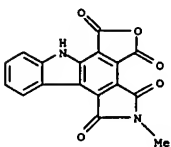


RN 568545-19-7 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 2-[2-(diethylamino)ethyl]-5-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

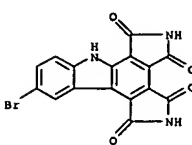


● HCl

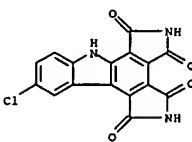
RN 681162-73-2 CAPLUS  
CN Furo[3,4-a]pyrrolo[3,4-c]carbazole-1,3,4,6(2H,7H)-tetrone, 2-methyl- (9CI) (CA INDEX NAME)



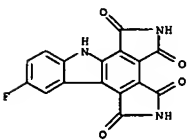
RN 681162-77-6 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 5-methyl- (9CI) (CA INDEX NAME)



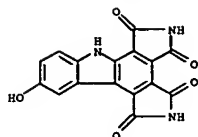
RN 681162-85-6 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 10-chloro- (9CI) (CA INDEX NAME)



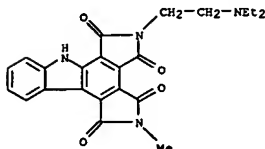
RN 681162-87-8 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 10-fluoro- (9CI) (CA INDEX NAME)



RN 681162-89-0 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 10-hydroxy- (9CI) (CA INDEX NAME)

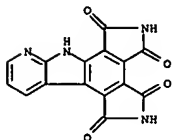


RN 856414-16-9 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 5-(2-(diethylamino)ethyl)-2-methyl-, monohydrochloride (9CI) (CA INDEX NAME)



● HCl

RN 856414-20-5 CAPLUS  
CN 1H-Pyrido[2,3-b]dipyrrolo[3,4-a:3',4'-g]indole-1,3,4,6(2H,5H,7H)-tetrone (9CI) (CA INDEX NAME)



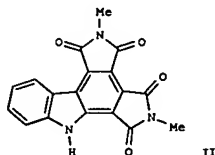
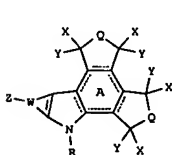
RN 856414-31-8 CAPLUS  
CN 1H-Pyrido[2,3-b]dipyrrolo[3,4-a:3',4'-g]indole-1,3,4,6(2H,5H,7H)-tetrone, 7-β-D-glucopyranosyl-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

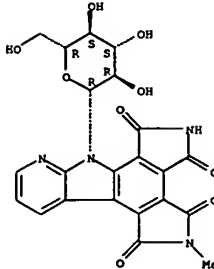
ACCESSION NUMBER: 2004:326182 CAPLUS  
DOCUMENT NUMBER: 140:339315  
TITLE: New anticancer bis-fused [3,4-a:3,4-c]carbazole derivatives, process for their preparation, and pharmaceutical compositions containing them  
INVENTOR(S): Frudhomme, Michelle; Hugon, Bernadette; Anizon, Fabrice; Hickman, John; Pierre, Alain; Golsteyn, Roy; Renard, Pierre; Pfeiffer, Bruno  
PATENT ASSIGNEE(S): Les Laboratoires Servier, Fr.  
SOURCE: Eur. Pat. Appl., 42 pp.  
CODEN: EPXKDW  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1411057	A1	20040421	EP 2003-292545	20031014
EP 1411057	B1	20050427		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, HK, CY, AL, TR, BG, CZ, EE, HU, SK				
FR 2843996	A1	20040423	FR 2002-12847	20021016
US 2004077672	A1	20040422	US 2003-672418	20030926
AT 294181	E	20050515	AT 2003-292545	20031014
ES 2240927	T3	20051016	ES 2003-3292545	20031014
CA 2443585	AA	20040416	CA 2003-2443585	20031015
BR 2003004575	A	20040720	BR 2003-4575	20031015
NZ 528902	A	20040924	NZ 2003-528902	20031015
ZA 2003008053	A	20040708	ZA 2003-8053	20031016
JP 2004277404	A2	20041007	JP 2003-355815	20031016
PRIORITY APPL. INFO.:			FR 2002-12847	A 20021016

OTHER SOURCE(S): MARPAT 140:339315  
GI

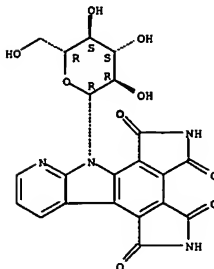


AB Title compds. I are disclosed [wherein: ring A is (un)saturated or (non)aromatic;  
W = atoms to form benzo or pyrro fusion; Z = H or wide variety of monovalent groups or (m)ethylenedioxy; Q = (independently) O or (un)substituted NH; X = (independently) H, OH, SH, (un)branched alkoxy or alkythio; Y = (independently) H or XY = (independently) O or S; R = H, (un)substituted (un)branched alkyl, (un)substituted tetrahydropyranyl, especially carbohydrates; including stereoisomers and salts; with 4 specific



RN 856414-33-0 CAPLUS  
CN 1H-Pyrido[2,3-b]dipyrrolo[3,4-a:3',4'-g]indole-1,3,4,6(2H,5H,7H)-tetrone, 7-β-D-glucopyranosyl- (9CI) (CA INDEX NAME)

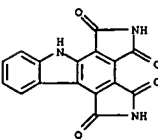
Absolute stereochemistry.



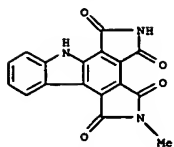
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

exceptions]. Over 50 compds. I are named, and approx. 16 are given with phys. data. For instance, cycloaddn. of 3-(1H-indol-3-yl)-1-methyl-1H-pyrrolo-2,5-dione with N-methylmaleimide in refluxing p-xylene gave an isomeric mixt. of products, which was treated with CF<sub>3</sub>CO<sub>2</sub>H in refluxing dioxane for 84 h to give example compd. II. This compd. had anticancer activity (IC<sub>50</sub>) against 3 cell lines in vitro as follows: murine leukemia L1210: 6.8 μM; human lung cancer A549: 4.7 μM, and prostate cancer DU145: 5.4 μM.  
IT 568545-14-2P, 1H-Dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone 568545-15-3P, 2-Methyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone 568545-16-4P, 2,5-Dimethyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone 568545-17-5P, 10-(Benzyloxy)-2,5-dimethyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone 568545-18-6P, 5-Methylfuro[3,4-c]pyrrolo[3,4-a]carbazole-1,3,4,6(2H,5H,7H)-tetrone 568545-19-7P, 2-[2-(Diethylamino)ethyl]-5-methyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone hydrochloride 681162-71-0P, 2-Methyl-1H-pyrrolo[2,3-b]dipyrrolo[3,4-a:3,4-g]indole-1,3,4,6(2H,5H,7H)-tetrone 681162-73-2P, 2-Methylfuro[3,4-a]pyrrolo[3,4-c]carbazole-1,3,4,6(2H,7H)-tetrone 681162-75-4P, 5-[2-(Diethylamino)ethyl]-2-methyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone hydrochloride 681162-77-6P, 5-Methyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone 681162-78-8P, Furo[3,4-a]pyrrolo[3,4-c]carbazole-1,3,4,6(2H,7H)-tetrone 681162-81-2P, 10-(Benzyloxy)-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone 681162-83-4P, 10-Bromo-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone 681162-85-6P, 10-Chloro-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone 681162-87-8P, 10-Fluoro-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone 681162-89-0P, 10-Hydroxy-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone 681162-91-4P, 2-[2-(Diethylamino)ethyl]-5-methyl-1H-dipyrrolo[3,4-a:3,4-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
(drug candidate; preparation of anticancer bis-fused carbazole derivs.)

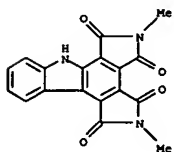
RN 568545-14-2 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone (9CI) (CA INDEX NAME)



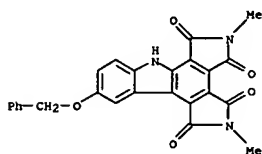
RN 568545-15-3 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 2-methyl- (9CI) (CA INDEX NAME)



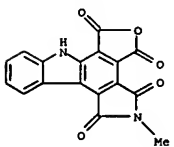
RN 568545-16-4 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 2,5-dimethyl- (9CI) (CA INDEX NAME)



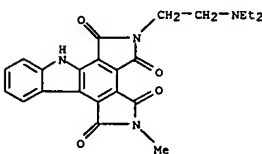
RN 568545-17-5 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 2,5-dimethyl-10-(phenylmethoxy)- (9CI) (CA INDEX NAME)



RN 568545-18-6 CAPLUS  
CN Furo[3,4-c]pyrrolo[3,4-a]carbazole-1,3,4,6(5H,7H)-tetrone, 5-methyl- (9CI)  
(CA INDEX NAME)

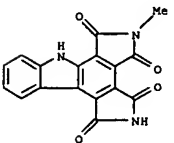


RN 681162-75-4 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 5-[2-(diethylamino)ethyl]-, hydrochloride (9CI) (CA INDEX NAME)

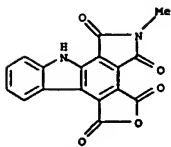


● x HCl

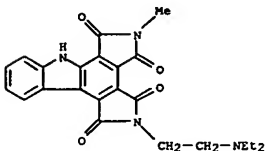
RN 681162-77-6 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 5-methyl- (9CI) (CA INDEX NAME)



RN 681162-79-8 CAPLUS  
CN Furo[3,4-c]pyrrolo[3,4-a]carbazole-1,3,4,6(2H,7H)-tetrone (9CI) (CA INDEX NAME)

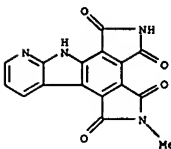


RN 568545-19-7 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 2-[2-(diethylamino)ethyl]-5-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

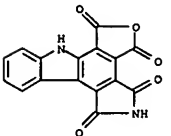


● HCl

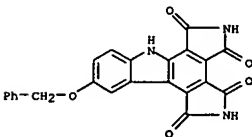
RN 681162-71-0 CAPLUS  
CN 1H-Pyrrolo[2,3-b]dipyrrolo[3,4-a:3',4'-g]indole-1,3,4,6(2H,5H,7H)-tetrone, 2-methyl- (9CI) (CA INDEX NAME)



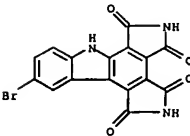
RN 681162-73-2 CAPLUS  
CN Furo[3,4-a]pyrrolo[3,4-c]carbazole-1,3,4,6(2H,7H)-tetrone, 2-methyl- (9CI)  
(CA INDEX NAME)



RN 681162-81-2 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 10-(phenylmethoxy)- (9CI) (CA INDEX NAME)

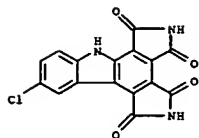


RN 681162-83-4 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 10-bromo- (9CI) (CA INDEX NAME)

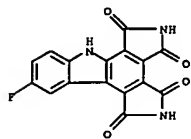


RN 681162-85-6 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 10-chloro- (9CI) (CA INDEX NAME)

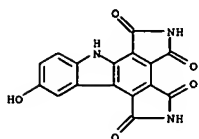




RN 681162-87-8 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
10-fluoro- (9CI) (CA INDEX NAME)

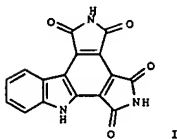


RN 681162-89-0 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
10-hydroxy- (9CI) (CA INDEX NAME)



RN 681162-91-4 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
2-[2-(diethylamino)ethyl]-5-methyl- (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2003:325880 CAPLUS  
DOCUMENT NUMBER: 139:133708  
TITLE: Synthesis of granulatinimide analogues bearing a  
maleimide instead of an imidazole heterocycle  
AUTHOR(S): Hugon, Bernadette; Pfeiffer, Bruno; Renard, Pierre;  
Frudhomme, Michelle  
CORPORATE SOURCE: Synthese et Etude de Systemes a Interet Biologique,  
Universite Blaise Pascal, UMR 6504 du CNRS, Aubiere,  
63177, Fr.  
SOURCE: Tetrahedron Letters (2003), 44(20), 3935-3937  
CODEN: TELEAY; ISSN: 0040-4039  
PUBLISHER: Elsevier Science Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 139:133708  
GI



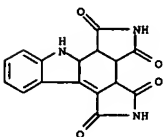
AB A synthesis in a few steps of a new family of granulatinimide analogs was  
performed. In the new compds., the aromatic framework of granulatinimide  
is

modified by replacement of the imidazole unit by a maleimide moiety, e.g.  
I. The synthesis of a water-soluble analog is also presented.

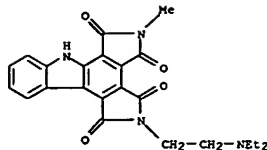
IT 568545-12-0P 568545-13-1P 568545-18-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)

(synthesis of granulatinimide analogs bearing a maleimide instead of an  
imidazole heterocycle)

RN 568545-12-0 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
3b,6a,6b,7-tetrahydro- (9CI) (CA INDEX NAME)

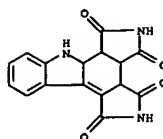


RN 568545-13-1 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
2-methyl- (9CI) (CA INDEX NAME)



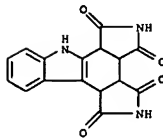
IT 568545-12-0, 3b,6a,6b,7-Tetrahydro-1H-dipyrrolo[3,4-a:3',4'-  
c]carbazole-1,3,4,6(2H,5H,7H)-tetrone  
RL: RCT (Reactant); RACT (Reactant or reagent)  
(starting material; preparation of anticancer bis-fused carbazole  
derivs.)

RN 568545-12-0 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone,  
3b,6a,6b,7-tetrahydro- (9CI) (CA INDEX NAME)

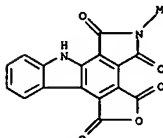


REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE  
FORMAT

3b,6a,7,11c-tetrahydro- (9CI) (CA INDEX NAME)

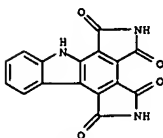


RN 568545-18-6 CAPLUS  
CN Furo[3,4-c]pyrrolo[3,4-a]carbazole-1,3,4,6(5H,7H)-tetrone, 5-methyl-  
(9CI) (CA INDEX NAME)

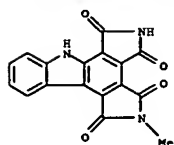


IT 568545-14-2P 568545-15-3P 568545-16-4P  
568545-17-5P 568545-19-7P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(synthesis of granulatinimide analogs bearing a maleimide instead of an  
imidazole heterocycle)

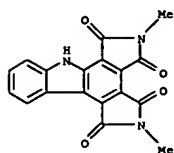
RN 568545-14-2 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone (9CI) (CA  
INDEX NAME)



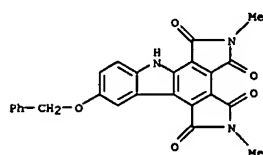
RN 568545-15-3 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 2-methyl-  
(9CI) (CA INDEX NAME)



RN 568545-16-4 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 2,5-dimethyl- (9CI) (CA INDEX NAME)



RN 568545-17-5 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 2,5-dimethyl-10-(phenylmethoxy)- (9CI) (CA INDEX NAME)



RN 568545-19-7 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,5H,7H)-tetrone, 2-[2-(diethylamino)ethyl]-5-methyl-, monohydrochloride (9CI) (CA INDEX NAME)

ACCESSION NUMBER: 2000:553875 CAPLUS  
DOCUMENT NUMBER: 133:335149  
TITLE: Acid-induced dimerization of 3-(1H-indol-3-yl)maleimides. Formation of cyclopentindole derivatives  
AUTHOR(S): Bergman, Jan; Janosik, Tomasz; Koch, Eva; Pelcman, Benjamin  
CORPORATE SOURCE: Department of Biosciences at Novum, Karolinska Institute, Huddinge, SE-141 57, Swed.  
SOURCE: Perkin 1 (2000), (16), 2615-2621  
CODEN: PERKF9  
PUBLISHER: Royal Society of Chemistry  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
OTHER SOURCE(S): CASREACT 133:335149  
GI

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

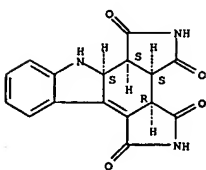
AB Acid-induced dimerizations of 3-substituted maleimides were investigated, leading to e.g. the cyclopentindole I and the deeply colored spiro compds.

II (R = H, MeO) in good yields. 3-(1H-indol-3-yl)maleimide readily gave the cycloaddn. products III (X = NH, NET, O) 13-15 on treatment with appropriate dienophiles. In addition, several related 3,3-di(1H-indol-3-yl)succinimides were prepared and studied.

IT 303190-29-6P  
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of cyclopentindoles by acid-induced dimerization of indolylmaleimides)

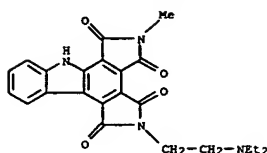
RN 303190-29-6 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone, 3b,6a,6b,7-tetrahydro-, (3aR,3bS,6aS,6bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



IT 303190-30-9P 303190-31-0P 303190-32-1P  
RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of cyclopentindoles by acid-induced dimerization of indolylmaleimides)

RN 303190-30-9 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone,

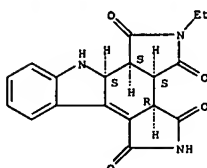


● HCl

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

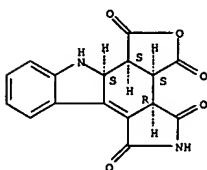
5-ethyl-3b,6a,6b,7-tetrahydro-, (3aR,3bS,6aS,6bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



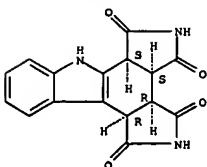
RN 303190-31-0 CAPLUS  
CN Furo[3,4-a]pyrrolo[3,4-c]carbazole-1,3,4,6(2H,3aH)-tetrone, 3b,6a,6b,7-tetrahydro-, (3aR,3bS,6aS,6bS)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



RN 303190-32-1 CAPLUS  
CN 1H-Dipyrrolo[3,4-a:3',4'-c]carbazole-1,3,4,6(2H,3aH,5H)-tetrone, 3b,6a,6b,7,11c-tetrahydro-, (3aR,3bS,6aS,11cR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS



=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

21.36

204.53

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-3.00

-3.00

FILE 'STNGUIDE' ENTERED AT 10:26:32 ON 09 FEB 2006

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Feb 3, 2006 (20060203/UP).

=> log y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.06

204.59

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-3.00

STN INTERNATIONAL LOGOFF AT 10:26:59 ON 09 FEB 2006